

Title (en)  
SELF SHIELDED GRADIENT COIL

Title (de)  
SELBSTABSCHIRMENDE GRADIENTENSPULE

Title (fr)  
BOBINE DE GRADIENT AUTOBLINDÉE

Publication  
**EP 2502096 A4 20130904 (EN)**

Application  
**EP 10832326 A 20101122**

Priority  
• US 26328009 P 20091120  
• US 2010057650 W 20101122

Abstract (en)  
[origin: WO2011063342A1] Gradient coil assemblies for horizontal magnetic resonance imaging systems (MRIs) and methods of their manufacture. Some embodiments may be used with open MRIs and can be used with an instrument placed in the gap of the MRI. In general, concentrations of conductors or radially oriented conductors may be moved away from the gap of the MRI so as to reduce eddy currents that may be induced in any instrument placed within the gap. Systems for directly cooling primary gradient and shield coils may be utilized and various coil supporting structures may be used to assist in coil alignment or to facilitate use of an instrument in the MRI gap.

IPC 8 full level  
**G01V 3/00** (2006.01); **G01R 33/38** (2006.01); **G01R 33/48** (2006.01)

CPC (source: EP US)  
**G01R 33/3806** (2013.01 - EP US); **G01R 33/385** (2013.01 - EP US); **G01R 33/3856** (2013.01 - EP US); **G01R 33/3858** (2013.01 - US); **G01R 33/4215** (2013.01 - EP US); **G01R 33/4808** (2013.01 - EP US); **A61N 2005/1055** (2013.01 - EP US)

Citation (search report)  
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• [I] US 2004239327 A1 20041202 - HEID OLIVER [DE], et al  
• [A] US 2006033496 A1 20060216 - SHVARTSMAN SHMARYU M [US], et al  
• [X] GREEN D ET AL: "Split cylindrical gradient coil for combined PET-MR system", INTERNATIONAL SOCIETY FOR MAGNETIC RESONANCE IN MEDICINE. SCIENTIFIC MEETING AND EXHIBITION. PROCEEDINGS, INTERNATIONAL SOCIETY FOR MAGNETIC RESONANCE IN MEDICINE, US, vol. 16, 3 May 2008 (2008-05-03), pages 352, XP002579026, ISSN: 1524-6965  
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DOCDB simple family (application)  
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